Microsoft

.net developer training

Create XML Web Services and Applications with Visual Studio .NET

Creating Windows® Applications

Module 07 Agenda

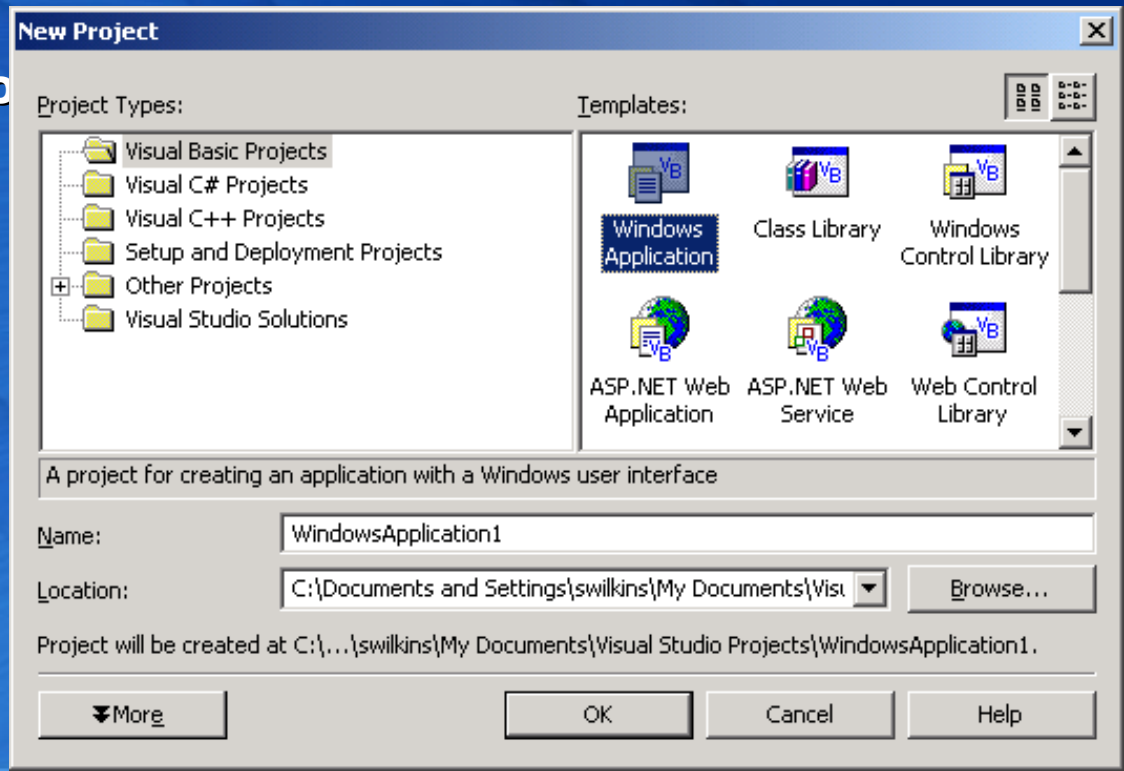
- Introduction
- Windows Forms
- New Features
  - Can access XML Web services
  - Visual inheritance
  - Deployment
- Additional Features

Introduction
Why Build Windows Applications Today?

- Brings existing application model forward
- Greater control over user interface
- Better packaging and security than Web Applications

Introduction: Application Architecture

- .EXE is like traditional applications
  - .EXE is an assembly
  - Runs as managed code
- Creating new applications
  - File → New Project → Windows Application
    - Drop controls
    - Run the applicatio



Windows Forms

- Shared across all .NET languages
- Full inheritance model
- Integration with Web Applications
- Integration with XML Web service
- Full access to .NET Framework and Win32® API's
- Easy no-touch deployment

Windows Forms

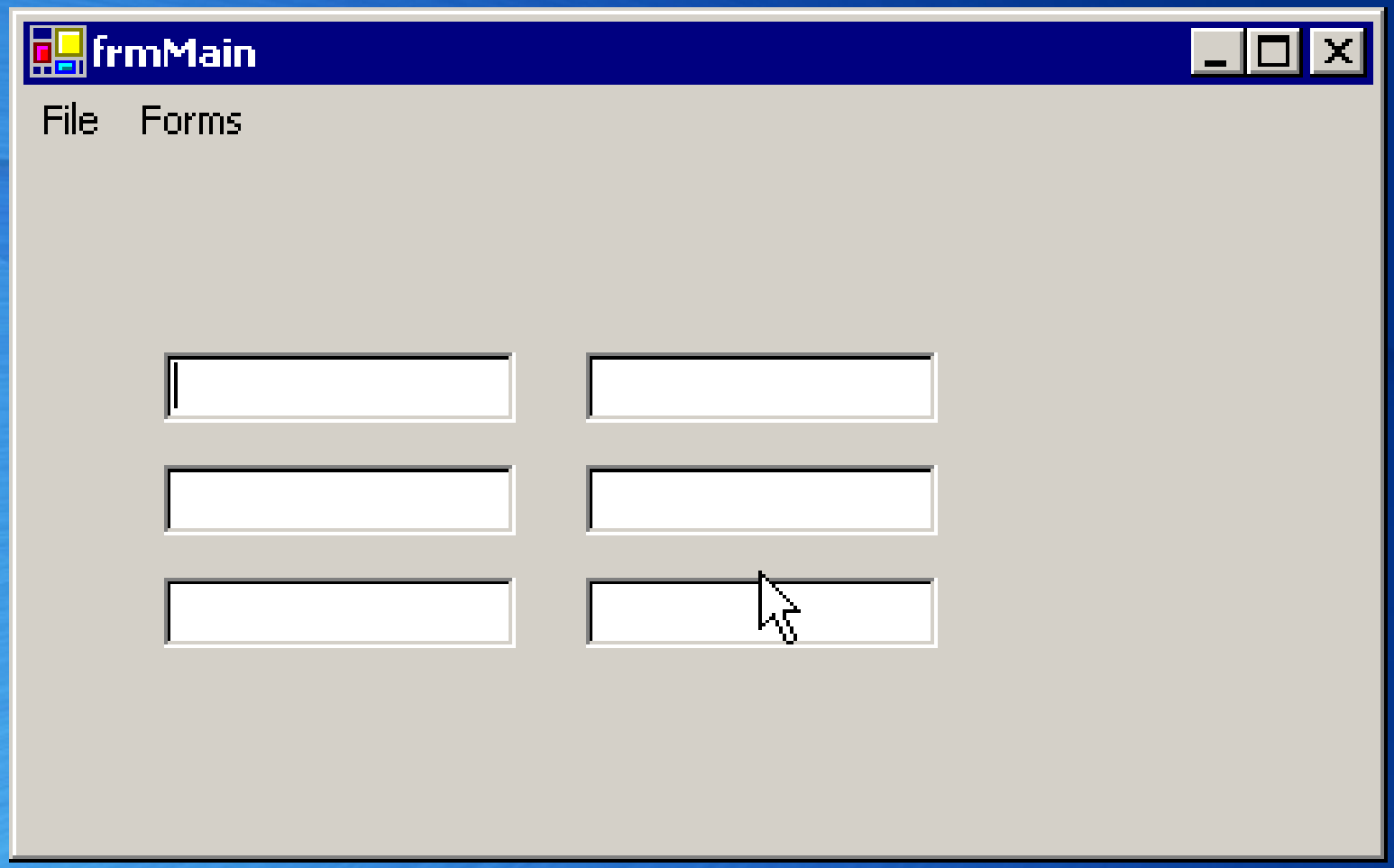
- Smart and powerful client UI
  - New look and feel options
- Secure
  - Semi-trusted browser component
  - Fully-trusted local application
- Localization
- Accessibility

Windows Forms Basics

- Controls
- Accessing data
- Printing
- Accessing Win32 API
- Full support for .NET Framework

Windows Forms Basics
Demo

Windows Forms Intro

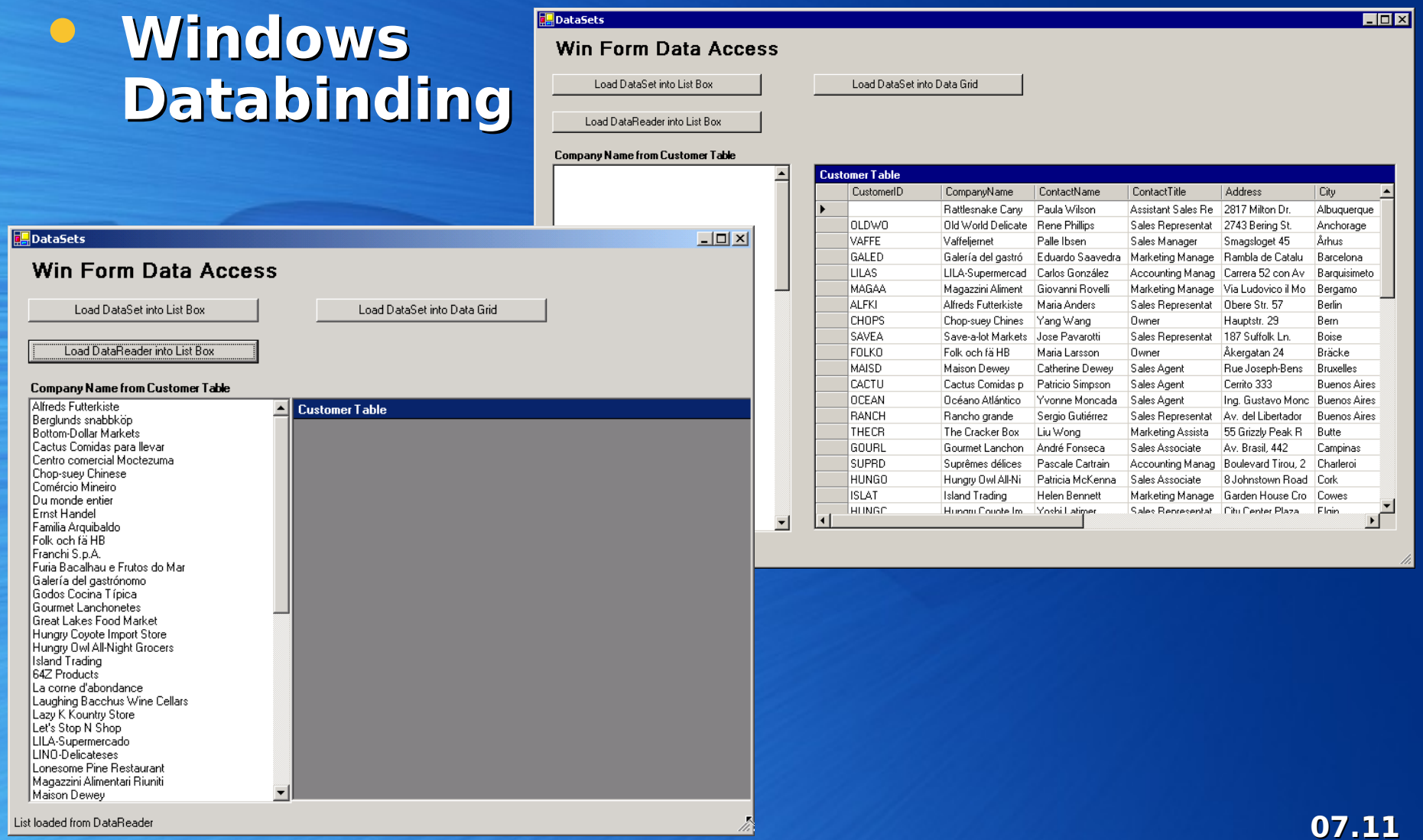


Working With Controls

- Control properties are consistent
  - No caption, use text
- Control collection
  - Use the controls collection
    - Replaces ControlArray in Visual Basic 6 and before

Adding Databound Controls
Demo

- Windows Databinding


DataSets
Win Form Data Access
Load DataSet into List Box
Load DataSet into Data Grid
Load DataReader into List Box
Company Name from Customer Table
Customer Table
CustomerID CompanyName ContactName ContactTitle Address City
ALFKI Alfreds Futterkiste Maria Anders Sales Representat Obere Str. 57 Berlin
ANATR Ana Trujillo Emparedados Ana Trujillo Owner Avda. de la Constitución 2222 México D.F.
ANTON Antonio Moreno Taquería Antonio Moreno Owner Mataderos 2312 México D.F.
AROUT Around the Horn Thomas Hardy Sales Representat 120 Hanover Sq. London
BERGS Berglunds snabbköp Christina Berglund Order Administr Berguvsvägen 8 Luleå
BLAUS Blauer See Delikatessen Hanna Moos Sales Representat Forsterstr. 57 Mannheim
BLONP Blondesddsl père et fils Frédérique Citeaux Marketing Manage 24, place Kléber Strasbourg
BOLID Bólido Comidas preparadas Martín Sommer Owner C/ Araquil, 67 Madrid
BONAP Bon app' Laurence Lebihan Owner 12, rue des Bouchers Marseille
BOTTM Bottom-Dollar Markets Elizabeth Lincoln Accounting Manag 23 Tsawassen Blvd. Tsawassen
BSBEV B's Beverages Victoria Ashworth Sales Representat Fauntleroy Circus London
CACTU Cactus Comidas p Patricio Simpson Sales Agent Cerrito 333 Buenos Aires
CENTC Centro comercial Moctezuma Francisco Chang Marketing Manage Sierras de Granada 9993 México D.F.
CHOPS Chop-suey Chines Yang Wang Owner Hauptstr. 29 Bern
COMMI Comércio Mineiro Pedro Afonso Sales Associate Av. dos Lusíadas, 23 São Paulo
CONSH Consolidated Holdings Elizabeth Brown Sales Representat Berkeley Gardens 12 Brewery London
DRACD Drachenblut Delikatessen Sven Ottlieb Order Administr Walserweg 21 Aachen
DUMON Du monde entier Janine Labrune Owner 67, rue des Cinquante Nantes
EASTC Eastern Connection Ann Devon Sales Agent 35 King George London
ERNSH Ernst Handel Roland Mendel Sales Manager Kirchgasse 6 Graz
FAMIA Familia Arquibaldo Aria Cruz Marketing Assista Rua Orós, 92 São Paulo
FISSA FISSA Fabrica Inter Diego Roel Accounting Manag C/ Moralzarzal, 86 Madrid
FOLIG Folies gourmandes Martine Rancé Assistant Sales A 184, chaussée de Tournai Lille
FOLKO Folk och fä HB Maria Larsson Owner Åkergatan 24 Bräcke
FRANK Frankenversand Peter Franken Marketing Manage Berliner Platz 43 München
FRANR France restauration Carine Schmitt Marketing Manage 54, rue Royale Nantes
FRANS Franchi S.p.A. Paolo Accorti Sales Representat Via Monte Bianco 34 Torino
FURIB Furia Bacalhau e Frutos do Mar Lino Rodriguez Sales Manager Jardim das rosas n. 32 Lisboa
GALED Galería del gastró Eduardo Saavedra Marketing Manage Rambla de Catalu Barcelona
GODOS Godos Cocina Típica José Pedro Freyre Sales Manager C/ Romero, 33 Sevilla
GOURL Gourmet Lanchon André Fonseca Sales Associate Av. Brasil, 442 Campinas
GREAL Great Lakes Food Market Howard Snyder Marketing Manage 2732 Baker Blvd. Eugene
HANAR Hanari Carnes Mario Pontes Accounting Manag Rua do Paço, 67 Rio de Janeiro
HILAA HILARION-Abastos Carlos Hernández Sales Representat Carrera 22 con Ave Carlos Rojas
HUNGC Hungry Coyote Im Yoshi Latimer Sales Representat City Center Plaza Elgin
HUNGO Hungry Owl All-Ni Patricia McKenna Sales Associate 8 Johnstown Road Cork
ISLAT Island Trading Helen Bennett Marketing Manage Garden House Cro Cowes
KOENE Königlich Essen Philip Cramer Sales Associate Maubelstr. 90 Brandenburg
LACOR La corne d'abondance Daniel Tonini Sales Representat 67, avenue de l'Europe Versailles
LAMAI La maison d'Asie Annette Roulet Sales Manager 1 rue Alsace-Lorraine Toulouse
LAUGB Laughing Bacchus Wine Yoshi Tannamuri Marketing Assista 1900 Oak St. Vancouver
LAZYK Lazy K Kountry Store John Steel Marketing Assista 12 Orchestra Terrace Walla Walla
LEHMS Lehmanns Marktstand Renate Messner Sales Representat Magazinweg 7 Frankfurt a.M.
LETSS Let's Stop N Shop Jaime Yorres Owner 87 Polk St. Suite 5 San Francisco
LILAS LILA-Supermercad Carlos González Accounting Manag Carrera 52 con Av Barquisimeto
LINOD LINO-Delicateses Felipe Izquierdo Owner Ave. 5 de Mayo Porlamar I. de Margarita
LONEP Lonesome Pine Restaurant Fran Wilson Sales Manager 89 Chiaroscuro Rd. Portland
MAGAA Magazzini Aliment Giovanni Rovelli Marketing Manage Via Ludovico il Mo Bergamo
MAISD Maison Dewey Catherine Dewey Sales Agent Rue Joseph-Bens Bruxelles
MEREP Mère Paillarde Jean Fresnière Marketing Assista 43 rue St. Laurent Montréal
MORGK Morgenstern Gesund Alexander Feuer Marketing Assista Heerstr. 22 Leipzig
NORTS North/South Simon Crowther Sales Associate South House 300 Queensbridge London
OCEAN Océano Atlántico Yvonne Moncada Sales Agent Ing. Gustavo Monc Buenos Aires
OLDWO Old World Delicate Rene Phillips Sales Representat 2743 Bering St. Anchorage
OTTIK Ottilies Käseladen Henriette Pfalzheim Owner Mehrheimerstr. 369 Köln
PARIS Paris spécialités Marie Bertrand Owner 265, boulevard Charonne Paris
PERIC Pericles Comidas clá Guillermo Fernández Sales Representat Calle Dr. Jorge Cash Mérida
PICCO Piccolo und mehr Georg Pipps Sales Manager Geislweg 14 Salzburg
PRINI Princesa Isabel Vinh Teresa Hernández Sales Representat Estrada da saúde n. Lisboa
QUEDE Que Delícia Bernardo Batista Accounting Manag Rua da Panificadora Rio de Janeiro
QUEEN Queen Cozinha Lúcia Carvalho Marketing Assista Alameda dos Canário São Paulo
QUICK QUICK-Stop Horst Kloss Accounting Manag Taucherstraße 10 Cunewalde
RANCH Rancho grande Sergio Gutiérrez Sales Representat Av. del Libertador Buenos Aires
RATTC Rattlesnake Cany Paula Wilson Assistant Sales Re 2817 Milton Dr. Albuquerque
REGGC Reggiani Caseifici Maurizio Moroni Sales Associate Strada Provinciale Reggio Emilia
RICAR Ricardo Adocicados Janete Limeira Assistant Sales Ag Av. Copacabana, 267 Rio de Janeiro
RICSU Richter Supermarkt Michael Holz Sales Manager Grenzacherweg 237 Genève
ROMEY Romero y tomillo Alejandra Camino Accounting Manag Gran Vía, 1 Madrid
SANTG Santé Gourmet Jonas Bergulfsen Owner Erling Skakkes gate Stavern
SAVEA Save-a-lot Markets Jose Pavarotti Sales Representat 187 Suffolk Ln. Boise
SEVES Seven Seas Imports Hari Kumar Sales Manager 90 Wadhurst Rd. London
SIMOB Simons bistro Jytte Petersen Owner Vinbæltet 34 Kobenhavn
SPECD Spécialités du monde Dominique Perrier Marketing Manage 25, rue Lauriston Paris
SPLIR Split Rail Beer & Ale Art Braunschweiger Sales Manager P.O. Box 555 Lander
SUPRD Suprêmes délices Pascale Cartrain Accounting Manag Boulevard Tirou, 2 Charleroi
THEBI The Big Cheese Liz Nixon Marketing Manage 89 Jefferson Way Portland
THECR The Cracker Box Liu Wong Marketing Assista 55 Grizzly Peak R Butte
TOMSP Toms Spezialitäten Karin Josephs Marketing Manage Luisenstr. 48 Münster
TORTU Tortuga Restaurante Miguel Angel Paolino Owner Avda. Azteca 123 México D.F.
TRADH Tradição Hipermerc Anabela Domingues Sales Representat Av. Inês de Castro, 4 São Paulo
TRAIH Trail's Head Gourmet Helvetius Nagy Sales Associate 722 DaVinci Blvd. Kirkland
VAFFE Vaffeljernet Palle Ibsen Sales Manager Smagsloget 45 Århus
VICTE Victuailles en stock Mary Saveley Sales Agent 2, rue du Commerce Lyon
VINET Vins et alcools Chevalier Paul Henriot Accounting Manag 59 rue de l'Abbaye Reims
WANDK Die Wandernde Kuh Rita Müller Sales Representat Adenauerallee 900 Stuttgart
WARTH Wartian Herkku Pirkko Koskitalo Accounting Manag Torikatu 38 Oulu
WELLI Wellington Importadora Paula Parente Sales Manager Rua do Mercado, 12 Resende
WHITC White Clover Markets Karl Jablonski Owner 305 - 14th Ave. S. Suite 3B Seattle
WILMK Wilman Kala Matti Karttunen Owner/Marketing Keskuskatu 45 Helsinki
WOLZA Wolski Zajazd Zbyszek Piestrzeniewicz Owner ul. Filtrowa 68 Warszawa
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Win Form Data Access
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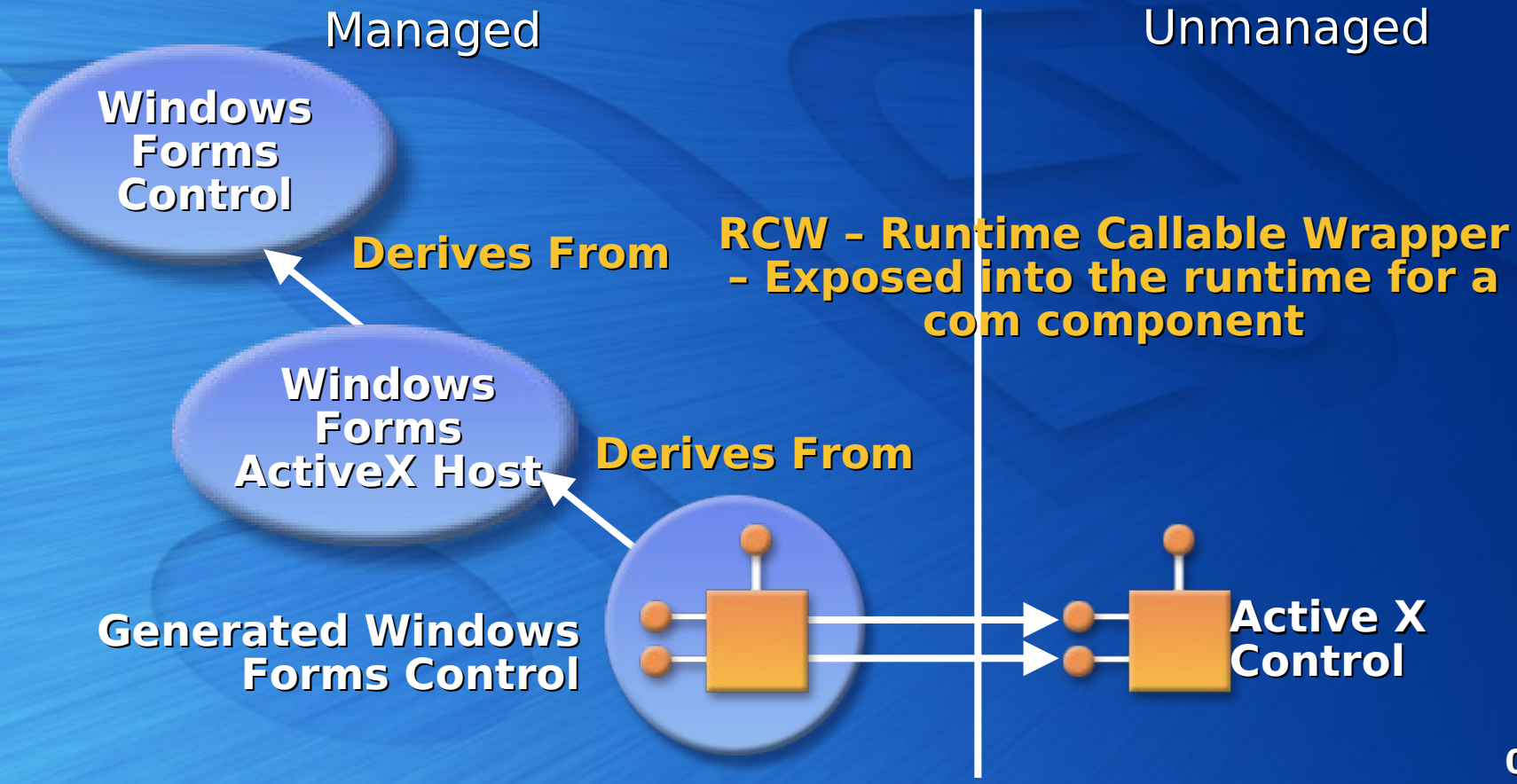
Company Name from Customer Table
Alfreds Futterkiste
Berglunds snabbköp
Bottom-Dollar Markets
Cactus Comidas para llevar
Centro comercial Moctezuma
Chop-suey Chinese
Comércio Mineiro
Du monde entier
Ernst Handel
Familia Arquibaldo
Folk och fä HB
Franchi S.p.A.
Furia Bacalhau e Frutos do Mar
Galería del gastrónomo
Godos Cocina Típica
Gourmet Lanchonetes
Great Lakes Food Market
Hungry Coyote Import Store
Hungry Owl All-Night Grocers
Island Trading
64Z Products
La corne d'abondance
Laughing Bacchus Wine Cellars
Lazy K Kountry Store
Let's Stop N Shop
LILA-Supermercado
LINO-Delicateses
Lonesome Pine Restaurant
Magazzini Alimentari Riuniti
Maison Dewey
Customer Table
List loaded from DataReader

New Features of Windows Forms Topics

- Access Web services
- ActiveX® Controls on Windows Forms
- Visual inheritance
- Deployment
  - Standard deployment
  - Auto-deployment over the Web

ActiveX® Control Hosting

- Seamless
- ActiveX controls will appear to be just another Windows Forms control



Inheritance

- **Windows Forms support inheritance**
  - **Works like inheriting classes (a form is a class)**
  - **Provides “visual” inheritance**
  - **Can override visual elements**
  - **Code in base class is also inherited**
  - **Use for:**
    - **Standard “base” forms for applications**
    - **Standard dialogs**
    - **Other common visual elements**

Inheritance

- Create form projects as a base class
  - Controls
    - Can lock controls or let subclasses override them
  - Code
    - Code is inherited like visual elements

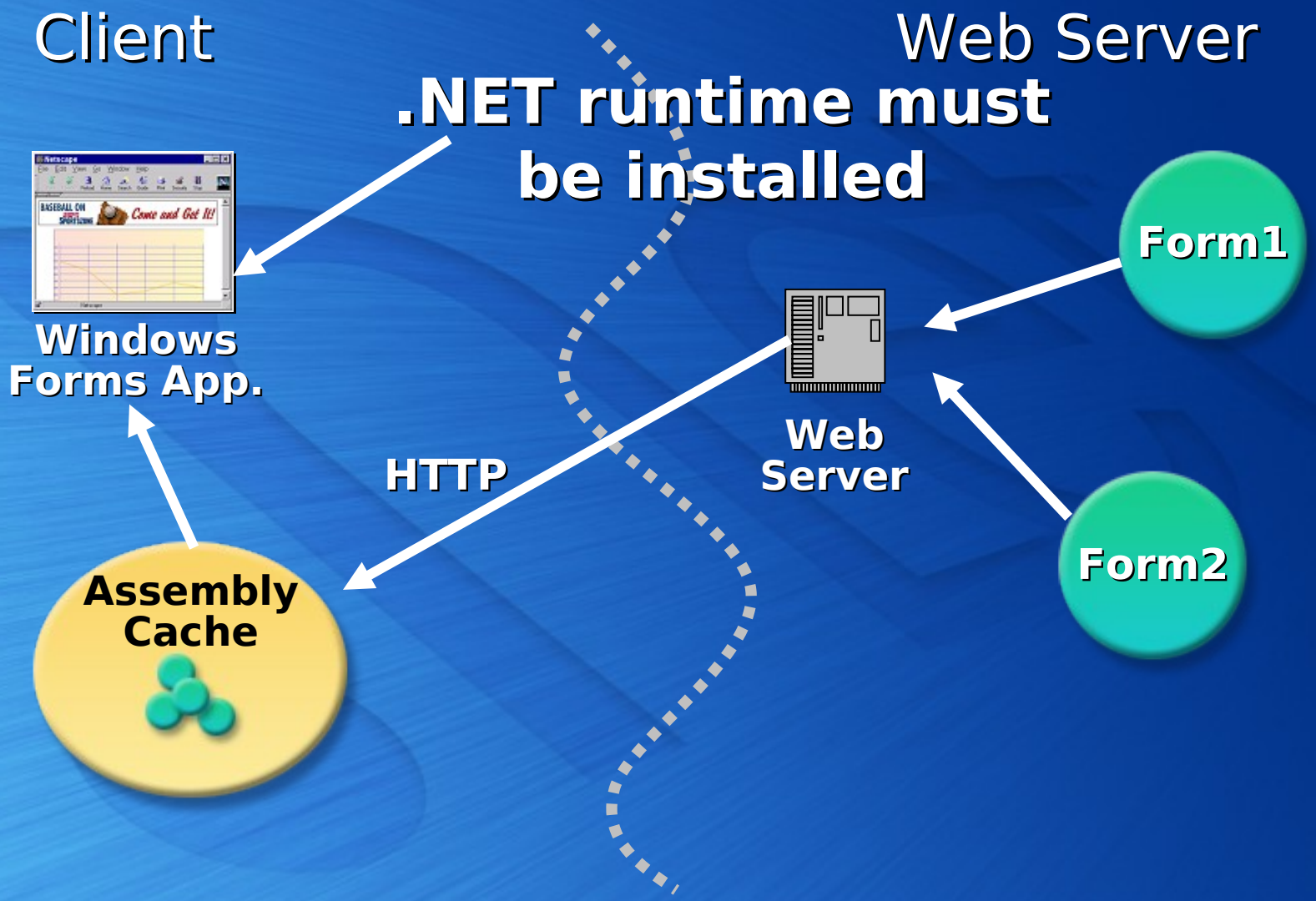
Visual Inheritance Demo

Visual Inheritance Demo

Auto Deployment

- No-touch deployment
  - Application isolation is the default
  - No registration is required
  - Versioning with no side affects
  - Web-based deployment
- Secure
  - Safe to run downloaded code
- Full integration with .NET Framework
  - Web service aware
  - Data aware

Auto Deployment



Summary

- You still can build Windows Applications
- Smart User Interface
- Deployment
  - Easy to install
  - Solves DLL Hell
  - Code Access Security makes downloadable code safe
- Integration with XML Web services

Resources

- ***An introduction to Windows Forms*** **- Creating basic forms in a Windows Application**
  http://msdn.microsoft.com/vstudio/nextgen/technology/winforms.asp
- ***The Basics of Windows Forms***
  http://msdn.microsoft.com/library/default.asp?url=/library/en-us/vbcon/html/vbconintroductiontowfcforms.asp

In-Depth Training On Components
Direct from Microsoft

- **2555A: Developing Microsoft .NET Applications for Windows (Visual C# .NET)**
  - **Available in May 2002**
- **2565A: Developing Microsoft .NET Applications for Windows (Visual Basic .NET)**
  - **Available in May 2002**

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